

I CLAIM:

1. A method of delivering personalized information to users, comprising:

collecting information items by a publisher;

storing said information items on at least one publisher's database;

establishing a user profile for each user and storing said user profiles on the at least one publisher's database;

periodically delivering a collection of information items to each user as personalized information, wherein at least a portion of information items from said collection is chosen based on each user's user profile;

collecting responses other than information item usage from said users related to said personalized information; and

refining each user profile based, at least in part, on each user's responses.

2. The method of delivering personalized information to users of claim 1, wherein said publisher collects information items from licensed commercial sources, free sources, and independent authors.

3. The method of delivering personalized information to users of claim 1, wherein personal topical interests, preferences and psychological-type of each user are fixed in each user's user profile.

4. The method of delivering personalized information to users of claim 1, wherein said personalized information is delivered by a channel selected from the group consisting of Internet web pages, FTP downloads, e-mail, facsimile transmission, delivered paper

1 hardcopy, magnetic media, optical media, broadcast TV, and radio.

2
3 5. The method of delivering personalized information to users of claim 1, wherein said
4 responses are collected by a channel selected from the group consisting of Internet web
5 pages, e-mail, facsimile transmission, delivered paper hardcopy, and voice mail.

6
7 6. The method of delivering personalized information to users of claim 2, wherein said
8 collected information items are indexed and classified into topical fields.

9
10 7. The method of delivering personalized information to users of claim 2, wherein said
11 information items are filtered to release a user from information which is excessive or
12 useless, by allocating only the most essential pieces of knowledge or information.

13
14 8. The method of delivering personalized information to users of claim 7, wherein a filtering
15 algorithm reduces a size of an information item to a specific value while preserving
16 general content of said information item as close as possible.

17
18 9. The method of delivering personalized information to users of claim 8, wherein a
19 synopsis is generated for an information item on the basis of semantic analysis of said
20 information item.

21
22 10. The method of delivering personalized information to users of claim 7, wherein a filtering
23 algorithm reduces a size of an information item by preserving only a part of said
24 information item related to a topical field designated in user's user profile.

1 publisher in reply to requests for specific information.

2
3 18. The method of delivering personalized information to users of claim 17, wherein a
4 publisher of personalized information requests information items from independent
5 authors based on said publication's topical interests, topical field of distributed
6 personalized information, and topical interests of users of personalized information.

7
8 19. The method of delivering personalized information to users of claim 2, wherein said
9 independent authors produce specific information items in response to general interests
10 revealed by said responses.

11
12 20. The method of delivering personalized information to users of claim 16, 17 or 19,
13 wherein user responses to said specific information items are used to rate, compensate, or
14 rate and compensate said independent authors.

15
16 21. The method of delivering personalized information to users of claim 2, wherein said
17 independent authors are paid royalties each time one of their information items is
18 included in a user's personal information.

19
20 22. The method of delivering personalized information to users of claim 2, wherein said
21 independent authors are paid royalties for submitted information items independently on
22 how many times said information items are actually included in a user's personal
23 information.

- 1
- 2 29. The method of delivering personalized information to users of claim 26, wherein said
- 3 user supplies an initial field of topical interest referencing to well-known information
- 4 sources or information publications.
- 5
- 6 30. The method of delivering personalized information to users of claim 23, wherein a user's
- 7 psychological-type is evaluated by applying a psychological tests for input into said user's
- 8 user profile.
- 9
- 10 31. The method of delivering personalized information to users of claim 23, wherein each
- 11 user chooses a condition determinative of a periodic delivery of said personal
- 12 information.
- 13
- 14 32. The method of delivering personalized information to users of claim 31, wherein a
- 15 condition determinative of said periodic delivery of said personal information is selected
- 16 from the group consisting of a user's request for specific information, a user-defined
- 17 schedule, and a specific event chosen by a user.
- 18
- 19 33. The method of delivering personalized information to users of claim 32, wherein a
- 20 specific event is an accumulation of a user-defined amount of undelivered information
- 21 items.
- 22
- 23 34. The method of delivering personalized information to users of claim 31, wherein said
- 24 condition determinative of said periodic delivery of said personal information is a specific

1 event and the only information item delivered is related to said specific event.

2
3 35. The method of delivering personalized information to users of claim 31, wherein said
4 condition determinative of said periodic delivery of said personal information is specified
5 by a user or by a third party appointed by said user.

6
7 36. The method of delivering personalized information to users of claim 23, wherein user's
8 user profile is created during registration.

9
10 37. The method of delivering personalized information to users of claim 36, wherein at least
11 a portion of information submitted during registration, including a user's field of interest,
12 is stored in said user's user profile.

13
14 38. The method of delivering personalized information to users of claim 23, wherein a user is
15 provided with unique password or identifier which is used to access collections of
16 information items.

17
18 39. The method of delivering personalized information to users of claim 1, wherein a person
19 learns about an existence of said personalized information through advertisements or
20 advertising collections of information items distributed by a publisher via generally
21 available printed and electronic media.

22
23 40. The method of delivering personalized information to users of claim 39, wherein said
24 advertising collections of information items are generated on the basis of most common

1 topical interests of registered users of said personal information.

2
3 41. The method of delivering personalized information to users of claim 39, wherein some
4 collections of information items generated for users of said personal information are used
5 as advertisements.

6
7 42. The method of delivering personalized information to users of claim 39, wherein
8 advertising collections of information items are periodically updated.

9
10 43. The method of delivering personalized information to users of claim 1, wherein said
11 responses from users are selected from the group consisting of subjective views on said
12 information items, user requests, inquiry responses, and formalized user statements.

13
14 44. The method of delivering personalized information to users of claim 43, wherein said
15 subjective views on said information items are expressed in a form selected from the
16 group consisting of evaluation of quality using a scale, expression of user's opinion about
17 information items, and comments to submitted information items.

18
19 45. The method of delivering personalized information to users of claim 1, wherein collecting
20 responses includes users marking paper hardcopy response forms and machine-reading
21 the data from said forms.

22
23 46. The method of delivering personalized information to users of claim 45, wherein said
24 response forms are transmitted by facsimile and machine-reading is performed by

1 recognition software.

2
3 47. The method of delivering personalized information to users of claim 46, wherein
4 said response forms include a section for users to create e-mail;
5 users address and draft messages in said section;
6 users indicate whether to send said messages as text or graphics files;
7 said section is recognized as text or graphics by said recognition software; and
8 said message is sent, as addressed, in the indicated format.

9
10 48. The method of delivering personalized information to users of claim 43, wherein said
11 user request expresses a user's interest in receiving future information items related to a
12 present information item.

13
14 49. The method of delivering personalized information to users of claim 43, wherein said
15 user request expresses user's interest in receiving some additional information items
16 submitted by the same independent author.

17
18 50. The method of delivering personalized information to users of claim 43, wherein a user
19 request contains a priority assigned by said user to requested information items or topical
20 fields.

21
22 51. The method of delivering personalized information to users of claim 50, wherein
23 information items with higher priority are included into issues of personalized
24 information in the priority order.

1 may import a user profile for their use from another user.

2
3 59. The method of delivering personalized information to users of claim 1, wherein user
4 profiles are used for special reasons selected from the group consisting of marketing
5 research and interrogation of public opinion.

6
7 60. The method of delivering personalized information to users of claim 1, wherein access to
8 certain information items requires said user to provide a certain response.

9
10 61. The method of delivering personalized information to users of claim 60, wherein said
11 certain response is selected from the group consisting of authorizing payment, authorizing
12 release of user information, viewing advertisements, viewing and registering responses to
13 advertisements, viewing information, viewing and registering responses to information,
14 responding to a questionnaire, and responding to a poll.

15
16 62. The method of delivering personalized information to users of claim 1, wherein said
17 personalized information is delivered in a form suitable for providing personal organizer
18 functions to said user.

19
20 63. The method of delivering personalized information to users of claim 62, wherein a user
21 may create individual collections of information items from various issues of
22 personalized information, establishes personal information archives, add personal
23 comments on information items, place bookmarks in selected places indicating a time to
24 refer to them in the future or activating upon the occurrence of a user-defined event, and

add new information items to the current issue of personalized information.

64. The method of delivering personalized information to users of claim 63, wherein individual collections of information items and personal information archives are organized as a plurality of sections associated with various fields of interest of said user or with one of user's projects.

65. The method of delivering personalized information to users of claim 1, wherein said personalized information is delivered in an electronic form provided with interactive tools comprising of navigating tools, archiving tools, annotating tools, calendar tools, printing tools, and communication tools.

66. The method of delivering personalized information to users of claim 1, wherein a logical model of personal information is established by said publisher comprising:

- methods for users' responses analysis;
- interfaces of users' workplaces;
- algorithms for taking into account users' profiles during generation of collections of information items for common use; and
- algorithms for prediction of necessities of users of personal information in goods and services through analysis of users' responses.

67. The method of delivering personalized information to users of claim 66, wherein logical models of personal information are provided by independent suppliers on request of said publisher.

1 73. The method of delivering personalized information to users of claim 68, wherein said
2 primary publisher is responsible for personal information released by said secondary
3 publishers and also for information items submitted to them.
4

5 74. The method of delivering personalized information to users of claim 68, wherein said
6 secondary publishers either assist said primary publisher in generation and distribution of
7 collections of information items or generate and distribute their own collections of
8 information items.

9 75. The method of delivering personalized information to users of claim 68, wherein said
10 collections of information items distributed by said secondary publishers differ from
11 collections distributed by said primary publisher in such a way that both primary and
12 secondary publishers use different approaches to information items selection and different
13 response collection techniques with personal information users.
14

15 76. The method of delivering personalized information to users of claim 68, wherein said
16 secondary publishers generate specialized collections of information items by including
17 into said collections some specific information items.
18

19 77. The method of delivering personalized information to users of claim 76, wherein topical
20 fields of said specialized collection of information items are determined by topical
21 interests of said secondary publisher and are established by fixing some topical sections.
22

23 78. The method of delivering personalized information to users of claim 68, wherein said
24 collections of information items distributed by said secondary publisher are generated by

1 said primary publisher on request of said secondary publisher or by said secondary
2 publisher himself using available information items.

3
4 79. The method of delivering personalized information to users of claim 74, wherein at least
5 a portion of collections of information items generated by said secondary publishers is
6 placed into local databases of said secondary publishers.

7
8 80. The method of delivering personalized information to users of claim 74, wherein at least
9 a portion of collections of information items generated by said secondary publishers is
10 transferred into a central database of said primary publisher.

11
12 81. The method of delivering personalized information to users of claim 68, wherein at least
13 a portion of information items necessary for generation of said collections of information
14 items is received by said secondary publishers from publishers of higher levels of
15 hierarchy.

16
17 82. The method of delivering personalized information to users of claim 68, wherein at least
18 a portion of information items necessary for generation of said collections of information
19 items is collected by said secondary publisher from licensed commercial sources, free
20 sources, and independent authors.

21
22 83. The method of delivering personalized information to users of claim 82, wherein at least
23 a portion of information items retrieved by said secondary publisher is stored on at least
24 one local database of said secondary publisher.

1
2 84. The method of delivering personalized information to users of claim 82, wherein at least
3 a portion of information items retrieved by said secondary publisher is transferred into at
4 least one central database of primary publisher.

5
6 85. The method of delivering personalized information to users of claim 82, wherein
7 information items retrieved by said secondary publishers are evaluated by primary
8 publishers or secondary publishers of higher level of hierarchy in order to make
9 conclusions about their usability in collections of information items.

10
11 86. The method of delivering personalized information to users of claim 68, wherein said
12 secondary publisher distributes said collections of information items completely
13 generated by publishers of higher levels of hierarchy.

14
15 87. The method of delivering personalized information to users of claim 86, wherein said
16 secondary publisher provides users with general purpose or specialized collections of
17 information items.

18
19 88. The method of delivering personalized information to users of claim 87, wherein said
20 secondary publisher influences content of said collections of information items by fixing
21 some topical sections.

22
23 89. The method of delivering personalized information to users of claim 87, wherein said
24 secondary publisher influences content of said collections of information items by

1 establishing his own response collection technique with personal information users.

2
3 90. The method of delivering personalized information to users of claim 68, wherein a user
4 registers to receive said personal information with said primary or secondary publisher.

5
6 91. The method of delivering personalized information to users of claim 90, wherein user's
7 user profile is stored on at least one local database of said primary or secondary publisher
8 said user has registered with.

9
10 92. The method of delivering personalized information to users of claim 91, wherein user's
11 user profile is transferred into at least one central database of a primary publisher.

12
13 93. The method of delivering personalized information to users of claim 68, wherein user
14 responses collected by said secondary publisher are analyzed by said secondary publisher.

15
16 94. The method of delivering personalized information to users of claim 69, wherein user
17 responses collected by said secondary publisher are forwarded to said primary publisher
18 or secondary publisher of higher level of hierarchy.

19
20 95. The method of delivering personalized information to users of claim 93, wherein at least
21 one secondary publisher establishes his own methods for analyzing user responses.

22
23 96. The method of delivering personalized information to users of claim 94, wherein said
24 secondary publisher provides said primary publisher or said secondary publisher of higher

1 level of hierarchy with methods and procedures for analyzing user responses.

2
3 97. The method of delivering personalized information to users of claim 66, wherein said
4 logical model of personal information is established by said primary publisher or a
5 secondary publisher.

6
7 98. The method of delivering personalized information to users of claim 97, wherein said
8 primary publisher establishes restrictions on said secondary publishers ability to introduce
9 their own logical models of personal information.

10
11 99. The method of delivering personalized information to users of claim 97, wherein said
12 secondary publisher establishes restrictions on secondary publishers of lower levels of
13 hierarchy to introduce their own logical models of personal information.

14
15 100. The method of delivering personalized information to users of claim 97, wherein said
16 logical model of personal information developed or acquired by said primary or said
17 secondary publisher is forwarded to another primary or secondary publisher.

18
19 101. The method of delivering personalized information to users of claim 1, wherein:
20 user profiles are initially formed by selecting a set of N topical fields of interest and
21 defining a significance magnitude for each topical field to create an N-dimensional information
22 space;

23 user profiles are refined by analyzing user responses to update the significance magnitude
24 for each topical field;

1 a trajectory is interpolated in said information space based on the updated significance
2 magnitudes; and

3 an information vector is defined as a vector tangent to said trajectory with a magnitude
4 defined as the derivative of the trajectory function at a given point to characterize how fast and in
5 what directions a user profile is changing.

6
7 102. The method of delivering personalized information to users of claim 101, including
8 analyzing a plurality of information vectors to assist in directing said step of collecting
9 information item.

10
11 103. The method of delivering personalized information to users of claim 101, including
12 analyzing a plurality of information vectors to predict users' need for some goods and
13 services.

14
15 104. The method of delivering personalized information to users of claim 1, wherein:
16 a plurality of users are associated as a group based on a common attribute;
17 a group profile is formed for said group;
18 a portion of information items delivered to said group as group information items is
19 chosen based on said group profile;
20 group information responses are collected from said group related to said group
21 information items; and
22 said group profile is refined based, at least in part, on said group information responses.

23
24 105. The method of delivering personalized information to users of claim 104, wherein each

1 user in said group specifies the portion of information items delivered based on said
2 user's user profile and the portion of information items delivered based on said group
3 profile.

4
5 106. The method of delivering personalized information to users of claim 104, wherein a third
6 party person specifies the portion of information items delivered based on each user's user
7 profile and the portion of information items delivered based on said group profile.

8
9 107. A method of delivering personalized information to users, comprising:
10 organizing multiple levels of primary and secondary publishers;
11 collecting information items;
12 storing said information on at least one database;
13 establishing a user profile for each user and storing said user profiles on at least one
14 database;
15 periodically delivering a collection of information items to each user as personalized
16 information, wherein at least a portion of information items from said collection is chosen based
17 on each user's user profile;
18 collecting responses from said users related to said personalized information; and
19 refining said user profile based, at least in part, on said responses.

20
21 108. The method of delivering personalized information to users of claim 107, wherein
22 primary publishers and secondary publishers distribute each of said collecting, storing,
23 delivering, and refining steps in a mutually agreed manner.

1
2 109. The method of delivering personalized information to users of claim 107, wherein
3 publishers act as primary publishers when they perform the step of collecting information
4 items and act as secondary publishers when they rely on other publishers to perform the
5 step of collecting information items.

6
7 110. The method of delivering personalized information to users of claim 107, wherein said
8 multiple levels of primary publishers and secondary publishers are organized as a
9 multilevel hierarchical structure where the primary publisher is on the top of hierarchy
10 and is responsible for the content of all personal information.

11
12 111. The method of delivering personalized information to users of claim 107, wherein
13 information items are collected from licensed commercial sources, free sources, and
14 independent authors.

15
16 112. The method of delivering personalized information to users of claim 107, wherein a
17 primary publisher collects said information items.

18
19 113. The method of delivering personalized information to users of claim 112, wherein said
20 primary publisher stores at least a portion of said information items on a publisher
21 database.

114. The method of delivering personalized information to users of claim 107, wherein personal topical interests, preferences and psychological-type of each user are fixed in each user's user profile.

115. The method of delivering personalized information to users of claim 114, wherein said primary publisher stores at least a portion of said user profiles on a publisher database

116. The method of delivering personalized information to users of claim 107, wherein said personalized information is delivered by a channel chosen from the group consisting of Internet web pages, FTP downloads, e-mail, facsimile transmission, delivered paper hardcopy, magnetic media, optical media, broadcast TV, and radio.

117. The method of delivering personalized information to users of claim 107, wherein said responses are collected by a channel chosen from the group consisting of Internet web pages, e-mail, facsimile transmission, delivered paper hardcopy, and voice mail.

118. The method of delivering personalized information to users of claim 111, wherein said information items are indexed and classified into topical fields.

119. The method of delivering personalized information to users of claim 107, wherein said information items are filtered to release a user from information which is excessive or useless by allocating only the most essential pieces of knowledge or information.



1
2 120. The method of delivering personalized information to users of claim 119, wherein a
3 filtering algorithm reduces a size of an information item to a specific value while
4 preserving general content of said information item as close as possible.
5

6 121. The method of delivering personalized information to users of claim 120, wherein a
7 synopsis is generated for an information item on the basis of semantic analysis of said
8 information item.
9

10 122. The method of delivering personalized information to users of claim 119, wherein a
11 filtering algorithm reduces a size of an information item by preserving only a part of said
12 information item related to a topical field designated in user's user profile.
13

14 123. The method of delivering personalized information to users of claim 107, wherein a
15 portion of information items from said delivered collection is chosen by at least one
16 secondary publisher.
17

18 124. The method of delivering personalized information to users of claim 123, wherein said
19 secondary publisher produces secondary information items and said secondary
20 information items are collected and stored on said publisher database.
21

22 125. The method of delivering personalized information to users of claim 123, wherein said

1 responses are collected by said secondary publisher.

2
3 126. The method of delivering personalized information to users of claim 125, wherein said
4 secondary publisher controls release of collected responses to said publisher.

5
6 127. The method of delivering personalized information to users of claim 125, wherein said
7 secondary publisher analyzes said responses to create information in a form usable by
8 said publisher, said secondary publisher, or another secondary publisher.

9
10 128. The method of delivering personalized information to users of claim 111, wherein
11 independent authors supply specific information items proceeding from their own topical
12 interests.

13
14 129. The method of delivering personalized information to users of claim 111, wherein
15 independent authors supply specific information items in reply to requests for specific
16 information.

17
18 130. The method of delivering personalized information to users of claim 129, wherein a
19 primary publisher of personalized information requests specific information items from
20 independent authors based on said publisher's topical interests, topical field of distributed
21 personalized information, and topical interests of users of personalized information.

131. The method of delivering personalized information to users of claim 111, wherein said independent authors produce specific information items in response to general interests revealed by said responses.

132. The method of delivering personalized information to users of claim 128, 129, or 131, wherein user responses to said specific information items are used to rate, compensate, or rate and compensate said independent authors.

133. The method of delivering personalized information to users of claim 111, wherein said independent authors are paid royalties each time one of their information items is included in a user's personal information.

134. The method of delivering personalized information to users of claim 111, wherein said independent authors are paid royalties for submitted information items independently on how many times said information items are actually included in a user's personal information.

135. The method of delivering personalized information to users of claim 107, wherein a user registers to receive said personal information with said primary publisher or secondary publisher.

136. The method of delivering personalized information to users of claim 135, wherein said

1 user registers to receive said personal information by filling in a standard form.

2
3 137. The method of delivering personalized information to users of claim 135, wherein said
4 user chooses at least one personal information collection from a plurality of information
5 collections released by said publisher.

6
7 138. The method of delivering personalized information to users of claim 135, wherein said
8 user supplies an initial field of topical interest or an initial user profile.

9
10 139. The method of delivering personalized information to users of claim 138, wherein said
11 user supplies an initial field of topical interest by selecting some topical sections from a
12 given predefined set

13
14 140. The method of delivering personalized information to users of claim 138, wherein said
15 user supplies an initial field of topical interest by a method chosen from the group
16 consisting of choosing a user profile of one of the earlier registered users of said personal
17 information, combining user profiles of any number of earlier registered users, specifying
18 a user profile generated by a publisher of said personal information, and combinations of
19 any one of these methods with the additional selection of some topical sections from a
20 given predefined set.

21
22 141. The method of delivering personalized information to users of claim 138, wherein said

1 user supplies an initial field of topical interest referencing to well-known information
2 sources or information publications.
3

4 142. The method of delivering personalized information to users of claim 135, wherein a user's
5 psychological-type is evaluated by applying psychological tests for input into said user's
6 user profile.
7

8 143. The method of delivering personalized information to users of claim 135, wherein each
9 user chooses a condition determinative of a periodic delivery of said personal
10 information.
11

12 144. The method of delivering personalized information to users of claim 143, wherein a
13 condition determinative of said periodic delivery of said personal information is selected
14 from the group consisting of a user's requests for specific information, a user-defined
15 schedule, and a specific event chosen by a user
16

17 145. The method of delivering personalized information to users of claim 144, wherein a
18 specific event is an accumulation of a user-defined amount of undelivered information
19 items.
20

21 146. The method of delivering personalized information to users of claim 143, wherein said
22 condition determinative of said periodic delivery of said personal information is a specific

1 event and the only information item delivered is related to said specific event.

2
3 147. The method of delivering personalized information to users of claim 143, wherein said
4 condition determinative of said periodic delivery of said personal information is specified
5 by a user or by a third party appointed by said user.

6
7 148. The method of delivering personalized information to users of claim 135, wherein user's
8 user profile is created during registration.

9
10 149. The method of delivering personalized information to users of claim 148, wherein at least
11 a portion of information submitted during registration, including a user's field of interest,
12 is stored in said user's user profile.

13
14 150. The method of delivering personalized information to users of claim 135, wherein a user
15 is provided with unique password or identifier which is used to access collections of
16 information items.

17
18 151. The method of delivering personalized information to users of claim 107, wherein a
19 person learns about an existence of said personal information through advertisements or
20 advertising collections of information items distributed by a publisher via generally
21 available printed and electronic media.

1 152. The method of delivering personalized information to users of claim 151, wherein said
2 advertising collections of information items are generated on the basis of most common
3 topical interests of registered users of said personal information.

4
5 153. The method of delivering personalized information to users of claim 151, wherein some
6 collections of information items generated for users of said personal information are used
7 as advertisements.

8
9 154. The method of delivering personalized information to users of claim 151, wherein
10 advertising collections of information items are periodically updated.

11
12 155. The method of delivering personalized information to users of claim 107, wherein said
13 responses from users are selected from the group consisting of information item usage,
14 subjective views on said information items, user requests, inquiry responses, and
15 formalized user statements.

16
17 156. The method of delivering personalized information to users of claim 155, wherein said
18 subjective views on said information items are expressed in a form selected from the
19 group consisting of evaluation of quality using a scale, expression of user's opinion about
20 information items, and comments to submitted information items.

21
22 157. The method of delivering personalized information to users of claim 107, wherein

collecting responses includes users marking paper hardcopy response forms and machine-reading the data from said forms.

158. The method of delivering personalized information to users of claim 157, wherein said response forms are transmitted by facsimile and machine-reading is performed by recognition software.

159. The method of delivering personalized information to users of claim 158, wherein said response forms include a section for users to create e-mail; users address and draft messages in said section; users indicate whether to send said messages as text or graphics files; said section is recognized as text or graphics by said recognition software; and said message is sent, as addressed, in the indicated format.

160. The method of delivering personalized information to users of claim 155, wherein said user request expresses a user's interest in receiving future information items related to a present information item.

161. The method of delivering personalized information to users of claim 155, wherein said user request expresses a user's interest in receiving some additional information items submitted by the same independent author.

1 162. The method of delivering personalized information to users of claim 155, wherein a user
2 request contains a priority assigned by said user to requested information items or topical
3 fields.

4
5 163. The method of delivering personalized information to users of claim 162, wherein
6 information items with higher priority are included into issues of personalized information in
7 the priority order.

8
9 164. The method of delivering personalized information to users of claim 162, wherein highest
10 priority is assigned to hot news or other urgent information items or topical fields.

11
12 165. The method of delivering personalized information to users of claim 164, wherein a user
13 orders additional comments to hot news or other urgent information items using a specific
14 request.

15
16 166. The method of delivering personalized information to users of claim 165, wherein a user
17 orders comments reflecting a desired point of view or submitted by an independent author
18 requested to by said user.

19
20 167. The method of delivering personalized information to users of claim 155, wherein a user may
21 delete topical sections from their user profile.

1 responding to a questionnaire, and responding to a poll.

2
3 174. The method of delivering personalized information to users of claim 107, wherein said
4 personalized information is delivered in a form suitable for providing personal organizer
5 functions to said user.

6
7 175. The method of delivering personalized information to users of claim 174, wherein a user may
8 create individual collections of information items from various issues of personalized
9 information, establish personal information archives, add personal comments on information
10 items, place bookmarks in selected places indicating a time to refer to them in the future or
11 activating upon the occurrence of a user-defined event, and add new information items to the
12 current issue of personalized information.

13
14 176. The method of delivering personalized information to users of claim 175, wherein individual
15 collections of information items and personal information archives are organized as a
16 plurality of sections associated with various fields of interest of said user or with one of
17 user's projects.

18
19 177. The method of delivering personalized information to users of claim 107, wherein said
20 personalized information is delivered in an electronic form provided with interactive tools
21 comprising navigating tools, archiving tools, annotating tools, calendar tools, printing tools,
22 and communication tools.

1
2 178. The method of delivering personalized information to users of claim 107, wherein said
3 primary publisher provides said secondary publishers with information items they need to
4 generate collections of information items.
5

6 179. The method of delivering personalized information to users of claim 178, wherein said
7 primary publisher is responsible for personal information released by said secondary
8 publishers and also for information items submitted to them.
9

10 180. The method of delivering personalized information to users of claim 107, wherein said
11 secondary publishers either assist said primary publisher in generation and distribution of
12 collections of information items or generate and distribute their own collections of
13 information items.
14

15 181. The method of delivering personalized information to users of claim 107, wherein said
16 collections of information items distributed by said secondary publishers differ from
17 collections distributed by said primary publisher in such a way that both primary and
18 secondary publishers use different approaches to information items selection and different
19 response collection techniques with personal information users.
20

21 182. The method of delivering personalized information to users of claim 107, wherein said
22 secondary publishers generate specialized collections of information items by including into

1 said collections some specific information items.

2
3 183. The method of delivering personalized information to users of claim 182, wherein topical
4 fields of said specialized collection of information items are determined by topical interests
5 of said secondary publisher and are established by fixing some topical sections.

6
7 184. The method of delivering personalized information to users of claim 180, wherein said
8 collections of information items distributed by said secondary publisher are generated by said
9 primary publisher on request of said secondary publisher or by said secondary publisher
10 himself using available information items.

11
12 185. The method of delivering personalized information to users of claim 180, wherein at least a
13 portion of collections of information items generated by said secondary publishers is placed
14 into local databases of said secondary publishers

15
16 186. The method of delivering personalized information to users of claim 180, wherein at least a
17 portion of collections of information items generated by said secondary publishers is
18 transferred into a central database of said primary publisher.

19
20 187. The method of delivering personalized information to users of claim 180, wherein at least a
21 portion of information items necessary for generation of said collections of information items
22 is received by said secondary publishers from publishers of higher levels of hierarchy.

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1
2 193. The method of delivering personalized information to users of claim 192, wherein said
3 secondary publisher provides users with general purpose or specialized collections of
4 information items.

5
6 194. The method of delivering personalized information to users of claim 193, wherein said
7 secondary publisher influences content of said collections of information items by fixing
8 some topical sections.

9
10 195. The method of delivering personalized information to users of claim 193, wherein said
11 secondary publisher influences content of said collections of information items by
12 establishing their own response collection technique with personal information users.

13
14 196. The method of delivering personalized information to users of claim 135, wherein user's user
15 profile is stored on at least one local database of said publisher or secondary publisher said
16 user has registered with.

17
18 197. The method of delivering personalized information to users of claim 196, wherein user's user
19 profile is transferred into at least one central database of a primary publisher.

20
21 198. The method of delivering personalized information to users of claim 107, wherein user
22 responses collected by said secondary publisher are analyzed by said secondary publisher.

1
2 199. The method of delivering personalized information to users of claim 110, wherein user
3 responses collected by said secondary publisher are forwarded to said primary publisher or
4 secondary publisher of higher level of hierarchy.

5
6 200. The method of delivering personalized information to users of claim 198, wherein at least
7 one secondary publisher establishes his own methods for analyzing user responses.

8
9 201. The method of delivering personalized information to users of claim 200, wherein said
10 secondary publisher provides said primary publisher or said secondary publisher of higher
11 level of hierarchy with methods and procedures for analyzing user responses.

12
13 202. The method of delivering personalized information to users of claim 107, wherein a logical
14 model of personal information is established by said primary or said secondary publishers
15 comprising:
16 methods for users' responses analysis;
17 interfaces of users' workplaces;
18 algorithms for taking into account users' profiles during generation of collections of
19 information items for common use; and
20 algorithms for prediction of necessities of users of personal information in goods and services
21 through analysis of users' responses.
22

1 203. The method of delivering personalized information to users of claim 202, wherein logical
2 models of personal information are provided by independent suppliers on request of said
3 primary or said secondary publisher.
4

5 204. The method of delivering personalized information to users of claim 202, wherein said
6 primary publisher establishes restrictions on said secondary publishers' ability to introduce
7 their own logical models of personal information.
8

9 205. The method of delivering personalized information to users of claim 202, wherein said
10 secondary publisher establishes restrictions on secondary publishers of lower levels of
11 hierarchy to introduce their own logical models of personal information.
12

13 206. The method of delivering personalized information to users of claim 202, wherein said
14 logical model of personal information developed or acquired by said primary or said
15 secondary publisher is forwarded to another primary or secondary publisher.
16

17 207. The method of delivering personalized information to users of claim 107, wherein:
18 user profiles are initially formed by selecting a set of N topical fields of interest and defining
19 a significance magnitude for each topical field to create an N-dimensional information space;
20 user profiles are refined by analyzing user responses to update the significance magnitude for
21 each topical field;
22 a trajectory in said information space is interpolated based on the updated significance

1 magnitudes; and

2 an information vector is defined as a vector tangent to said trajectory with a magnitude
3 defined as the derivative of the trajectory function at a given point to characterize how fast and in
4 what directions a user profile is changing.

5
6 208. The method of delivering personalized information to users of claim 207, including
7 analyzing a plurality of information vectors to assist in directing said step of collecting
8 information items.

9
10 209. The method of delivering personalized information to users of claim 207, including
11 analyzing a plurality of information vectors to predict users' need for some goods and
12 services.

13
14 210. The method of delivering personalized information to users of claim 107, wherein:
15 a plurality of users are associated as a group based on a common attribute;
16 a group profile is formed for said group;
17 at least a portion of information items delivered to said group as group information items is
18 chosen based on said group profile;
19 group information responses are collected from said group related to said group information
20 items; and
21 said group profile is refined based, at least in part, on said group information responses.
22

1 211. The method of delivering personalized information to users of claim 210, wherein each user
2 in said group specifies the portion of information items delivered based on his user profile
3 and the portion of information items delivered based on said group profile.
4

5 212. The method of delivering personalized information to users of claim 210, wherein a third
6 party person specifies the portion of information items delivered based on each user's user
7 profile and the portion of information items delivered based on said group profile.
8

9 213. A method of delivering personalized information to users, comprising:
10 collecting information items;
11 storing said information items on at least one database;
12 establishing a user profile for each user and storing said user profiles on at least one database;
13 periodically delivering a collection of information items to each user as personalized
14 information, wherein at least a portion of information items from said collection is chosen based on
15 each user's user profile;
16 collecting responses other than information item usage from said users related to said
17 personalized information; and
18 refining each user profile based, at least in part, on said user's responses.
19

20 214. The method of delivering personalized information to users of claim 213, wherein said
21 information items are collected from licensed commercial sources, free sources, and
22 independent authors.

1
2 215. The method of delivering personalized information to users of claim 213, wherein personal
3 topical interests, preferences and psychological-type of each user are fixed in user's user
4 profile.

5
6 216. The method of delivering personalized information to users of claim 213, wherein said
7 personalized information is delivered by a channel selected from the group consisting of
8 Internet web pages, FTP downloads, e-mail, facsimile transmission, delivered paper
9 hardcopy, magnetic media, optical media, broadcast TV, and radio.

10
11 217. The method of delivering personalized information to users of claim 213, wherein said
12 responses are collected by a channel selected from the group consisting of Internet web
13 pages, e-mail, facsimile transmission, delivered paper hardcopy, and voice mail.

14
15 218. The method of delivering personalized information to users of claim 214, wherein said
16 information items are indexed and classified into topical fields.

17
18 219. The method of delivering personalized information to users of claim 214, wherein said
19 information items are filtered to release a user from information which is excessive or useless
20 by allocating only the most essential pieces of knowledge or information.

21
22 220. The method of delivering personalized information to users of claim 219, wherein a filtering

1 algorithm reduces a size of an information item to a specific value while preserving general
2 content of said information item as close as possible.

3
4 221. The method of delivering personalized information to users of claim 220, wherein a synopsis
5 is generated for an information item on the basis of semantic analysis of said information
6 item.

7
8 222. The method of delivering personalized information to users of claim 219, wherein a filtering
9 algorithm reduces a size of an information item by preserving only a part of said information
10 item related to a topical field designated in user's user profile.

11
12 223. The method of delivering personalized information to users of claim 213, wherein a
13 publisher collects said information items.

14
15 224. The method of delivering personalized information to users of claim 223, wherein said
16 publisher stores at least a portion of said information items and at least a portion of said user
17 profiles on a publisher database.

18
19 225. The method of delivering personalized information to users of claim 213, wherein a portion
20 of information items from said collection is chosen by at least one secondary publisher.

21
22 226. The method of delivering personalized information to users of claim 225 wherein said

secondary publisher produces secondary information items and said secondary information items are collected and stored on said publisher database.

227. The method of delivering personalized information to users of claim 225, wherein said responses are collected by said secondary publisher.

228. The method of delivering personalized information to users of claim 227, wherein said secondary publisher controls release of collected responses to said publisher.

229. The method of delivering personalized information to users of claim 227, wherein said secondary publisher analyzes said responses to create information in a form usable by said publisher, said secondary publisher, or another secondary publisher.

230. The method of delivering personalized information to users of claim 214, wherein independent authors supply specific information items to a publisher or secondary publisher proceeding from their own topical interests.

231. The method of delivering personalized information to users of claim 214, wherein independent authors supply specific information items to a publisher or secondary publisher in reply to requests for specific information.

232. The method of delivering personalized information to users of claim 231, wherein a

1 publisher of personalized information requests specific information items from independent
2 authors proceeding from the publisher's topical interests, topical field of distributed
3 personalized information, and topical interests of users of personalized information.
4

5 233. The method of delivering personalized information to users of claim 232, wherein said
6 independent authors produce information items in response to general interests revealed by
7 said responses.
8

9 234. The method of delivering personalized information to users of claim 230, 231 or 233,
10 wherein user responses to said specific information items are used to rate, compensate, or
11 rate and compensate said independent authors.
12

13 235. The method of delivering personalized information to users of claim 214, wherein said
14 independent authors are paid royalties each time one of their information items is included in
15 a user's personal information.
16

17 236. The method of delivering personalized information to users of claim 214, wherein said
18 independent authors are paid royalties for submitted information items independently on how
19 many times said information items are actually included in a user's personal information.
20

21 237. The method of delivering personalized information to users of claim 213, wherein a user
22 registers to receive said personal information with a publisher or secondary publisher.

1
2 238. The method of delivering personalized information to users of claim 237, wherein said user
3 registers to receive said personal information by filling in a standard form.
4

5 239. The method of delivering personalized information to users of claim 237, wherein said user
6 chooses at least one personal information collection from a plurality of information
7 collections released by said publisher.
8

9 240. The method of delivering personalized information to users of claim 237, wherein said user
10 supplies an initial field of topical interest or an initial user profile.
11

12 241. The method of delivering personalized information to users of claim 240, wherein a user
13 supplies an initial field of topical interest by selecting some topical sections from a given
14 predefined set.
15

16 242. The method of delivering personalized information to users of claim 240, wherein said user
17 supplies an initial field of topical interest by a method chosen from the group consisting of
18 choosing a user profile of one of the earlier registered users of said personal information,
19 combining user profiles of any number of earlier registered users, specifying a user profile
20 generated by a publisher of said personal information, and combinations of any one of these
21 methods with the additional selection of some topical sections from a given predefined set.
22

1 243. The method of delivering personalized information to users of claim 240, wherein said user
2 supplies an initial field of topical interest referencing to well-known information sources or
3 information publications.

4
5 244. The method of delivering personalized information to users of claim 237, wherein user's
6 psychological-type is evaluated by applying psychological tests for input into said user's user
7 profile.

8
9 245. The method of delivering personalized information to users of claim 237, wherein each user
10 chooses a condition determinative of a periodic delivery of said personal information.

11
12 246. The method of delivering personalized information to users of claim 245, wherein a
13 condition determinative of said periodic delivery of said personal information is selected
14 from the group consisting of a user's request for specific information, a user-defined
15 schedule, and a specific event chosen by a user.

16
17 247. The method of delivering personalized information to users of claim 246, wherein a specific
18 event is an accumulation of a user-defined amount of undelivered information items.

19
20 248. The method of delivering personalized information to users of claim 245, wherein said
21 condition determinative of said periodic delivery of said personal information is a specific
22 event and the only information item delivered is related to said specific event.

1
2 249. The method of delivering personalized information to users of claim 245, wherein said
3 condition determinative of said periodic delivery of said personal information is specified by
4 a user or by a third party appointed by said user.
5

6 250. The method of delivering personalized information to users of claim 237, wherein user's user
7 profile is created during registration.
8

9 251. The method of delivering personalized information to users of claim 250, wherein at least a
10 portion of information submitted during registration, including a user's field of interest, is
11 stored in said user's user profile.
12

13 252. The method of delivering personalized information to users of claim 237, wherein a user is
14 provided with unique password or identifier which is used to access collections of
15 information items.
16

17 253. The method of delivering personalized information to users of claim 213, wherein a person
18 learns about an existence of said personal information through advertisements or advertising
19 collections of information items distributed by a publisher via generally available printed and
20 electronic media.
21

22 254. The method of delivering personalized information to users of claim 253, wherein said

1 advertising collections of information items are generated on the basis of most common
2 topical interests of registered users of said personal information.

3
4 255. The method of delivering personalized information to users of claim 253, wherein some
5 collections of information items generated for users of said personal information are used as
6 advertisements.

7
8 256. The method of delivering personalized information to users of claim 253, wherein
9 advertising collections of information items are periodically updated.

10
11 257. The method of delivering personalized information to users of claim 213, wherein said
12 responses from users are selected from the group consisting of subjective views on said
13 information items, user requests, inquiry responses, and formalized user statements.

14 258. The method of delivering personalized information to users of claim 257, wherein said
15 subjective views on said information items are expressed in a form selected from the group
16 consisting of evaluation of quality using a scale, expression of user's opinion about
17 information items, and comments to submitted information items.

18
19 259. The method of delivering personalized information to users of claim 213, wherein collecting
20 responses includes users marking paper hardcopy response forms and machine-reading the
21 data from said forms.

1 260. The method of delivering personalized information to users of claim 259, wherein said
2 response forms are transmitted by facsimile and machine-reading is performed by recognition
3 software.

4
5 261. The method of delivering personalized information to users of claim 260, wherein said
6 response forms include a section for:
7 users to create e-mail;
8 users address and draft messages in said section;
9 users indicate whether to send said messages as text or graphics files, wherein said section is
10 recognized as text or graphics by said recognition software; and said message is sent, as addressed,
11 in the indicated format.

12
13 262. The method of delivering personalized information to users of claim 257, wherein said user
14 request expresses a user's interest in receiving future information items related to a present
15 information item.

16
17 263. The method of delivering personalized information to users of claim 257, wherein said user
18 request expresses user's interest in receiving some additional information items submitted by
19 the same independent author.

20
21 264. The method of delivering personalized information to users of claim 257, wherein a user
22 request contains a priority assigned by said user to requested information items or topical

1 fields.

2
3 265. The method of delivering personalized information to users of claim 264, wherein
4 information items with higher priority are included into issues of personalized information in
5 the priority order.

6
7 266. The method of delivering personalized information to users of claim 264, wherein highest
8 priority is assigned to hot news or other urgent information items or topical fields.

9
10 267. The method of delivering personalized information to users of claim 266, wherein a user
11 orders additional comments to hot news or other urgent information items using a specific
12 request.

13
14 268. The method of delivering personalized information to users of claim 267, wherein a user
15 orders comments reflecting a desired point of view or submitted by an independent author
16 requested by said user.

17
18 269. The method of delivering personalized information to users of claim 257, wherein a user may
19 delete topical sections from their user profile.

20
21 270. The method of delivering personalized information to users of claim 213, wherein each said
22 collection of information items, in addition to information items fitting the user's user profile,

1 includes some publisher's information items which are deemed to be most important at the
2 time of generation of said collection.

3
4 271. The method of delivering personalized information to users of claim 213, wherein a user may
5 export their user profile for use by another user.

6
7 272. The method of delivering personalized information to users of claim 271, wherein a user may
8 import a user profile for their use that has been exported by another user.

9
10 273. The method of delivering personalized information to users of claim 213, wherein user
11 profiles are used for special reasons selected from the group consisting of marketing
12 researches and interrogation of public opinion.

13
14 274. The method of delivering personalized information to users of claim 213, wherein access to
15 certain information items requires said user to provide a certain response.

16
17 275. The method of delivering personalized information to users of claim 274, wherein said
18 certain response is selected from the group consisting of authorizing payment, authorizing
19 release of user information, viewing advertisements, viewing and registering responses to
20 advertisements, viewing information, viewing and registering responses to information,
21 responding to a questionnaire, and responding to a poll.

1 model of personal information is established by a publisher comprising:
2 methods for users' responses analysis;
3 interfaces of users' workplaces;
4 algorithms for taking into account users' profiles during generation of collections of
5 information items for common use; and
6 algorithms for prediction of necessities of users of personal information in goods and services
7 through analysis of users' responses.
8

9 281. The method of delivering personalized information to users of claim 280, wherein logical
10 models of personal information are provided by independent suppliers on request of said
11 publisher.
12

13 282. The method of delivering personalized information to users of claim 213, including
14 organizing multiple levels of primary publishers and secondary publishers that distribute
15 each of said collecting, storing, delivering, and refining steps in a mutually agreed manner,
16 wherein publishers act as primary publishers when they perform the step of collecting
17 information items and act as secondary publishers when they rely on other publishers to
18 perform the step of collecting information items.
19

20 283. The method of delivering personalized information to users of claim 282, wherein said
21 multiple levels of primary publishers and secondary publishers are organized as a multilevel
22 hierarchical structure where the primary publisher is on the top of hierarchy and is

1 responsible for the content of all personal information.

2
3 284. The method of delivering personalized information to users of claim 282, wherein said
4 primary publisher collects information items from licensed commercial sources, free sources,
5 and independent authors.

6
7 285. The method of delivering personalized information to users of claim 284, wherein said
8 primary publisher stores said information items on at least one central database.

9
10 286. The method of delivering personalized information to users of claim 282, wherein said
11 primary publisher provides said secondary publishers with information items they need to
12 generate collections of information items.

13
14 287. The method of delivering personalized information to users of claim 282, wherein said
15 primary publisher is responsible for personal information released by said secondary
16 publishers and also for information items submitted to them.

17
18 288. The method of delivering personalized information to users of claim 282, wherein said
19 secondary publishers either assist said primary publisher in generation and distribution of
20 collections of information items or generate and distribute their own collections of
21 information items.

1 289. The method of delivering personalized information to users of claim 282, wherein said
2 collections of information items distributed by said secondary publishers differs from
3 collections distributed by said primary publisher in such a way that both primary and
4 secondary publishers use different approaches to information items selection and different
5 response collection technique with personal information users.

7 290. The method of delivering personalized information to users of claim 282, wherein said
8 secondary publishers generate specialized collections of information items by including into
9 said collections some specific information items.

11 291. The method of delivering personalized information to users of claim 290, wherein a topical
12 field of said specialized collection of information items is determined by topical interests of
13 said secondary publisher and is established by fixing some topical sections.

15 292. The method of delivering personalized information to users of claim 282, wherein said
16 collections of information items distributed by said secondary publisher are generated by said
17 primary publisher on request of said secondary publisher or by said secondary publisher
18 himself using available information items.

20 293. The method of delivering personalized information to users of claim 288, wherein at least a
21 portion of collections of information items generated by said secondary publishers is placed
22 into local databases of said secondary publishers.

1 299. The method of delivering personalized information to users of claim 296, wherein
2 information items retrieved by said secondary publishers are evaluated by primary publisher
3 or one of secondary publishers of higher level of hierarchy in order to make conclusions
4 about their usability in collections of information items.

5
6 300. The method of delivering personalized information to users of claim 282, wherein said
7 secondary publisher distributes said collections of information items completely generated by
8 publishers of higher levels of hierarchy.

9
10 301. The method of delivering personalized information to users of claim 300, wherein said
11 secondary publisher provides users with general purpose or specialized collections of
12 information items.

13
14 302. The method of delivering personalized information to users of claim 301, wherein said
15 secondary publisher influences content of said collections of information items by fixing
16 some topical sections.

17 303. The method of delivering personalized information to users of claim 301, wherein said
18 secondary publisher influences content of said collections of information items by
19 establishing his own feedback technique with personal information users.

20
21 304. The method of delivering personalized information to users of claim 282, wherein a user
22 registers to receive said personal information with said primary or secondary publisher.

1
2 305. The method of delivering personalized information to users of claim 304, wherein user's user
3 profile is stored on at least one local database of said secondary publisher said user has
4 registered with.
5

6 306. The method of delivering personalized information to users of claim 305, wherein user's user
7 profile is transferred into at least one central database of a primary publisher.
8

9 307. The method of delivering personalized information to users of claim 282, wherein user
10 responses collected by said secondary publisher are analyzed by said secondary publisher.
11

12 308. The method of delivering personalized information to users of claim 283, wherein user
13 responses collected by said secondary publisher are forwarded to said primary publisher or
14 secondary publisher of higher level of hierarchy.
15

16 309. The method of delivering personalized information to users of claim 307, wherein at least
17 one secondary publisher establishes his own methods for analysing user responses.
18

19 310. The method of delivering personalized information to users of claim 308, wherein said
20 secondary publisher provides said primary publisher or said secondary publisher of higher
21 level of hierarchy with methods and procedures for analysing user responses.
22

1 311. The method of delivering personalized information to users of claim 280, wherein said
2 logical model of personal information is established by said primary publisher or a secondary
3 publisher.

4
5 312. The method of delivering personalized information to users of claim 311, wherein said
6 primary publisher establishes restrictions on said secondary publishers to introduce their own
7 logical models of personal information.

8
9 313. The method of delivering personalized information to users of claim 311, wherein said
10 secondary publisher establishes restrictions on secondary publishers of lower levels of
11 hierarchy to introduce their own logical models of personal information.

12
13 314. The method of delivering personalized information to users of claim 311, wherein said
14 logical model of personal information developed or acquired by said primary or said
15 secondary publisher is forwarded to another primary or secondary publisher.

16
17 315. The method of delivering personalized information to users of claim 213, wherein:
18 user profiles are initially formed by selecting a set of N topical fields of interest and defining
19 a significance magnitude for each topical field to create an N -dimensional information space;
20 user profiles are refined by analyzing user responses to update the significance magnitude for
21 each topical field;
22 a trajectory is interpolated in said information space based on the updated significance

1 magnitudes; and

2 an information vector is defined as a vector tangent to said trajectory with a magnitude
3 defined as the derivative of the trajectory function at a given point to characterize how fast and in
4 what directions a user profile is changing.

5
6 316. The method of delivering personalized information to users of claim 315, including
7 analyzing a plurality of information vectors to assist in directing said step of collecting
8 information items.

9
10 317. The method of delivering personalized information to users of claim 315, including
11 analyzing a plurality of information vectors to predict users' need for some goods and
12 services.

13
14 318. The method of delivering personalized information to users of claim 213, wherein:
15 a plurality of users are associated as a group based on a common attribute;
16 a group profile is formed for said group;
17 a portion of information items delivered to said group as group information items is chosen
18 based on said group profile;
19 group information responses are collected from said group related to said group information
20 items; and

21 said group profile is refined based, at least in part, on said group information responses.
22

1 319. The method of delivering personalized information to users of claim 318, wherein each user
2 in said group specifies the portion of information items delivered based on said user's user
3 profile and the portion of information items delivered based on said group profile.
4

5 320. The method of delivering personalized information to users of claim 319, wherein a third
6 party person specifies the portion of information items delivered based on each user's user
7 profile and the portion of information items delivered based on said group profile.
8

9 321. A method of delivering personalized information to users, comprising:

10 collecting information items;

11 storing said information items on at least one database;

12 associating a plurality of users as a group based on a common attribute;

13 establishing a group profile for said group and storing said group profiles on at least one
14 database;

15 periodically delivering a collection of information items to each user as personalized
16 information, wherein at least a portion of information items from said collection is chosen based on
17 said group profile;

18 collecting group information responses other than information item usage from said group
19 related to group information items; and

20 refining said group profile based, at least in part, on said group information responses.
21

22 322. The method of delivering personalized information to users of claim 321, wherein said

1 information items are collected from licensed commercial sources, free sources, and
2 independent authors.

3
4 323. The method of delivering personalized information to users of claim 321, wherein group
5 topical interests, preferences and psychological-types of a plurality of users are fixed in said
6 group profile.

7
8 324. The method of delivering personalized information to users of claim 321, wherein said
9 personalized information is delivered by a channel selected from the group consisting of
10 Internet web pages, FTP downloads, e-mail, facsimile transmission, delivered paper
11 hardcopy, magnetic media, optical media, broadcast TV, and radio.

12
13 325. The method of delivering personalized information to users of claim 321, wherein said group
14 information responses are collected by a channel selected from the group consisting of
15 Internet web pages, e-mail, facsimile transmission, delivered paper hardcopy, and voice mail.

16
17 326. The method of delivering personalized information to users of claim 322, wherein said
18 information items are indexed and classified into topical fields.

19
20 327. The method of delivering personalized information to users of claim 322, wherein said
21 information items are filtered to release a user from information which is excessive or useless
22 by allocating only the most essential pieces of knowledge or information

328. The method of delivering personalized information to users of claim 327, wherein a filtering algorithm reduces a size of an information item to a specific value while preserving general content of said information item as close as possible.

329. The method of delivering personalized information to users of claim 328, wherein a synopsis is generated for an information item on the basis of semantic analysis of said information item.

330. The method of delivering personalized information to users of claim 327, wherein a filtering algorithm reduces a size of an information item by preserving only a part of said information item related to a topical field designated in group profile.

331. The method of delivering personalized information to users of claim 321, wherein a publisher collects said information items.

332. The method of delivering personalized information to users of claim 331, wherein said publisher stores at least a portion of said information items and at least a portion of said group profiles on a publisher database.

333. The method of delivering personalized information to users of claim 321, wherein a portion of information items from said collection is chosen by at least one secondary publisher.

1
2 334. The method of delivering personalized information to users of claim 333, wherein said
3 secondary publisher produces secondary information items and said secondary information
4 items are collected and stored on said publisher database.
5

6 335. The method of delivering personalized information to users of claim 333, wherein said group
7 information responses are collected by said secondary publisher.
8

9 336. The method of delivering personalized information to users of claim 335, wherein said
10 secondary publisher controls release of collected group information responses to said
11 publisher.
12

13 337. The method of delivering personalized information to users of claim 335, wherein said
14 secondary publisher analyzes said group information responses to create information in a
15 form usable by said publisher, said secondary publisher, or another secondary publisher.
16

17 338. The method of delivering personalized information to users of claim 322, wherein
18 independent authors supply specific information items to a publisher or secondary publisher
19 proceeding from their own topical interests
20

21 339. The method of delivering personalized information to users of claim 322, wherein
22 independent authors supply specific information items to a publisher or secondary publisher

1 in reply to requests for specific information.

2
3 340. The method of delivering personalized information to users of claim 339, wherein a
4 publisher of personalized information requests specific information items from independent
5 authors proceeding from said publisher's topical interests, topical field of distributed
6 personalized information, and topical interests of groups of users of personalized
7 information.

8
9 341. The method of delivering personalized information to users of claim 340, wherein said
10 independent authors produce specific information items in response to general interests
11 revealed by said group information responses.

12
13 342. The method of delivering personalized information to users of claim 338, 339, or 341,
14 wherein group information responses to said specific information items are used to rate,
15 compensate, or rate and compensate said independent authors.

16
17 343. The method of delivering personalized information to users of claim 322, wherein said
18 independent authors are paid royalties each time one of their information items is included in
19 a collection of group information items.

20
21 344. The method of delivering personalized information to users of claim 322, wherein said
22 independent authors are paid royalties for submitted information items independently on how

1 many times said information items are actually included in a collection of group information
2 items.

3
4 345. The method of delivering personalized information to users of claim 321, wherein a group of
5 users registers to receive said group information with a publisher or secondary publisher.

6
7 346. The method of delivering personalized information to users of claim 345, wherein each user
8 in said group registers to receive said group information by filling in a standard form

9
10 347. The method of delivering personalized information to users of claim 345, wherein said group
11 of users chooses at least one information collection from a plurality of information
12 collections released by said publisher.

13
14 348. The method of delivering personalized information to users of claim 345, wherein each user
15 in said group supplies an initial field of topical interest.

16
17 349. The method of delivering personalized information to users of claim 348, wherein each user
18 in said group supplies an initial field of topical interest by selecting some topical sections
19 from a given predefined set.

20
21 350. The method of delivering personalized information to users of claim 348, wherein each user
22 in said group supplies an initial field of topical interest by a method chosen from the group

1 consisting of choosing a group profile of one of the earlier registered groups, combining
2 group profiles of any number of groups, specifying a group profile generated by a publisher
3 of said group information, and combinations of any one of these methods with additional
4 selection of some topical sections from a given predefined set.

5
6 351. The method of delivering personalized information to users of claim 348, wherein each user
7 in said group supplies an initial field of topical interest referencing to well-known
8 information sources or information publications.

9
10 352. The method of delivering personalized information to users of claim 345, wherein
11 psychological-type of each user in said group is evaluated by applying psychological tests for
12 input into the group profile.

13
14 353. The method of delivering personalized information to users of claim 345, wherein each user
15 in said group chooses a condition determinative of a periodic delivery of said group
16 information.

17
18 354. The method of delivering personalized information to users of claim 353, wherein a
19 condition determinative of said periodic delivery of said group information is selected from
20 the group consisting of a user's request for specific information, a user-defined schedule, and
21 a specific event chosen by a user.

1 355. The method of delivering personalized information to users of claim 354, wherein a specific
2 event is an accumulation of a user-defined amount of undelivered information items.
3

4 356. The method of delivering personalized information to users of claim 353, wherein said
5 condition determinative of said periodic delivery of said group information is a specific event
6 and the only information item delivered is related to said specific event.
7

8 357. The method of delivering personalized information to users of claim 353, wherein said
9 condition determinative of said periodic delivery of said group information is specified by a
10 user, group of users or by a third party appointed by said user or group of users.
11

12 358. The method of delivering personalized information to users of claim 345, wherein a group
13 profile is created during registration.
14

15 359. The method of delivering personalized information to users of claim 358, wherein at least a
16 portion of information submitted during registration, including user's field of interest, is
17 stored in said group profile.
18

19 360. The method of delivering personalized information to users of claim 345, wherein each user
20 in said group is provided with unique password or identifier which is used to access
21 collections of group information items.
22

361. The method of delivering personalized information to users of claim 321, wherein a person learns about an existence of said group information through advertisements and advertising collections of information items distributed by a publisher via generally available printed and electronic media.

362. The method of delivering personalized information to users of claim 361, wherein said advertising collections of information items are generated on the basis of most common topical interests of registered groups of users of said group information.

363. The method of delivering personalized information to users of claim 361, wherein some collections of information items generated for groups of users of said personal information are used as advertisements.

364. The method of delivering personalized information to users of claim 361, wherein advertising collections of information items are periodically updated.

365. The method of delivering personalized information to users of claim 321, wherein said group information responses are selected from the group consisting of subjective views on said information items, user requests, inquiry responses, and formalized user statements.

366. The method of delivering personalized information to users of claim 365, wherein said subjective views on said information items are expressed in a form selected from the group

1 consisting of evaluation of quality using a scale, expression of user's opinion about
2 information items, and comments to submitted information items.

3
4 367. The method of delivering personalized information to users of claim 321, wherein collecting
5 responses includes users marking paper hardcopy response forms and machine-reading the
6 data from said forms.

7
8 368. The method of delivering personalized information to users of claim 367, wherein said
9 response forms are transmitted by facsimile and machine-reading is performed by recognition
10 software.

11
12 369. The method of delivering personalized information to users of claim 368, wherein
13 said response forms include a section for users to create e-mail;
14 users address and draft messages in said section; and
15 users indicate whether to send said messages as text or graphics files, wherein
16 said section is recognized as text or graphics by said recognition software; and
17 said message is sent, as addressed, in the indicated format.

18
19 370. The method of delivering personalized information to users of claim 365, wherein said user
20 request expresses a user's interest in receiving future information items related to a present
21 information item.

1 371. The method of delivering personalized information to users of claim 365, wherein said user
2 request expresses user's interest in receiving some additional information items submitted by
3 the same independent author.
4

5 372. The method of delivering personalized information to users of claim 365, wherein a user
6 request contains a priority assigned by said user to requested information items or topical
7 fields.
8

9 373. The method of delivering personalized information to users of claim 372, wherein
10 information items with higher priority are included into issues of personalized information in
11 the priority order.
12

13 374. The method of delivering personalized information to users of claim 372, wherein highest
14 priority is assigned to hot news or other urgent information items or topical fields.
15

16 375. The method of delivering personalized information to users of claim 374, wherein a user
17 orders additional comments to hot news or other urgent information items using a specific
18 request.
19

20 376. The method of delivering personalized information to users of claim 375, wherein a user
21 orders comments reflecting a desired point of view or submitted by an independent author
22 requested by said user.

1 383. The method of delivering personalized information to users of claim 382, wherein said
2 certain response is selected from the group consisting of authorizing payment, authorizing
3 release of user information, viewing advertisements, viewing and registering responses to
4 advertisements, viewing information, viewing and registering responses to information,
5 responding to a questionnaire, and responding to a poll.
6

7 384. The method of delivering personalized information to users of claim 321, wherein said group
8 information is delivered in a form suitable for providing personal organizer functions to said
9 user.
10

11 385. The method of delivering personalized information to users of claim 384, wherein a user may
12 create individual collections of information items from various issues of group information,
13 establish personal information archives, add personal comments on information items, place
14 bookmarks in selected places indicating a time to refer to them in the future or activating
15 upon the occurrence of a user-defined event, and add new information items to the current
16 issue of group information.
17

18 386. The method of delivering personalized information to users of claim 385, wherein individual
19 collections of information items and personal information archives can be organized as
20 plurality of sections associated with various fields of interest of said user or with one of
21 user's projects.
22

1 387. The method of delivering personalized information to users of claim 321, wherein said group
2 information is delivered in an electronic form provided with interactive tools comprising
3 navigating tools, archiving tools, annotating tools, calendar tools, printing tools, and
4 communication tools.

5
6 388. The method of delivering personalized information to users of claim 321, wherein a logical
7 model of group information is established by a publisher, comprising:
8 methods for group information responses analysis;
9 interfaces of users' workplaces;
10 algorithms for taking into account group profiles during generation of collections of
11 information items for common use; and
12 algorithms for prediction of necessities of users of group information in goods and services
13 through analysis of group information responses

14
15 389. The method of delivering personalized information to users of claim 388, wherein logical
16 models of group information are provided by independent suppliers on request of said
17 publisher.

18
19 390. The method of delivering personalized information to users of claim 321, including
20 organizing multiple levels of primary publishers and secondary publishers that distribute
21 each of said collecting, storing, delivering, and refining steps in a mutually agreed manner,
22 wherein publishers act as primary publishers when they perform the step of collecting

information items and act as secondary publishers when they rely on other publishers to perform the step of collecting information items.

391. The method of delivering personalized information to users of claim 390, wherein said multiple levels of primary publishers and secondary publishers are organized as a multilevel hierarchical structure where the primary publisher is on the top of hierarchy and is responsible for the content of all personal information.

392. The method of delivering personalized information to users of claim 390, wherein said primary publisher collects information items from licensed commercial sources, free sources, and independent authors.

393. The method of delivering personalized information to users of claim 392, wherein said primary publisher stores said information items on at least one central database.

394. The method of delivering personalized information to users of claim 390, wherein said primary publisher provides said secondary publishers with information items they need to generate collections of information items.

395. The method of delivering personalized information to users of claim 390, wherein said primary publisher is responsible for group information released by said secondary publishers and also for information items submitted to them.

396. The method of delivering personalized information to users of claim 390, wherein said secondary publishers either assist said primary publisher in generation and distribution of collections of information items or generate and distribute their own collections of information items.

397. The method of delivering personalized information to users of claim 390, wherein said collections of information items distributed by said secondary publishers differs from collections distributed by said primary publisher in such a way that both primary and secondary publishers use different approaches to information item selection and different response collection techniques with group information users.

398. The method of delivering personalized information to users of claim 390, wherein said secondary publishers generate specialized collections of information items by including into said collections some specific information items.

399. The method of delivering personalized information to users of claim 398, wherein a topical field of said specialized collection of information items is determined by topical interests of said secondary publisher and is established by fixing some topical sections.

400. The method of delivering personalized information to users of claim 390, wherein said collections of information items distributed by said secondary publisher are generated by said

1 primary publisher on request of said secondary publisher or by said secondary publisher
2 himself using available information items.
3

4 401. The method of delivering personalized information to users of claim 396, wherein at least a
5 portion of collections of information items generated by said secondary publishers is placed
6 into local databases of said secondary publishers.
7

8 402. The method of delivering personalized information to users of claim 396, wherein at least a
9 portion of collections of information items generated by said secondary publishers is
10 transferred into central database of said primary publisher.
11

12 403. The method of delivering personalized information to users of claim 390, wherein at least a
13 portion of information items necessary for generation of said collections of information items
14 is received by said secondary publishers from publishers of higher levels of hierarchy.
15

16 404. The method of delivering personalized information to users of claim 390, wherein at least a
17 portion of information items necessary for generation of said collections of information items
18 is collected by said secondary publisher from licensed commercial sources, free sources, and
19 independent authors.
20

21 405. The method of delivering personalized information to users of claim 404, wherein at least a
22 portion of information items retrieved by said secondary publisher is stored on at least one



1 local database of said secondary publisher.

2
3 406. The method of delivering personalized information to users of claim 404, wherein at least a
4 portion of information items retrieved by said secondary publisher is transferred into at least
5 one central database of primary publisher.

6
7 407. The method of delivering personalized information to users of claim 404, wherein
8 information items retrieved by said secondary publishers are evaluated by primary publisher
9 or one of secondary publishers of higher level of hierarchy in order to make conclusions
10 about their usability in collections of information items.

11
12 408. The method of delivering personalized information to users of claim 390, wherein said
13 secondary publisher distributes said collections of information items completely generated by
14 publishers of higher levels of hierarchy.

15
16 409. The method of delivering personalized information to users of claim 408, wherein said
17 secondary publisher provides users with general purpose or specialized collections of
18 information items.

19
20 410. The method of delivering personalized information to users of claim 409, wherein said
21 secondary publisher influences content of said collections of information items by fixing
22 some topical sections.

- 1
- 2 411. The method of delivering personalized information to users of claim 409, wherein said
- 3 secondary publisher influences content of said collections of information items by
- 4 establishing his own feedback technique with group information users.
- 5
- 6 412. The method of delivering personalized information to users of claim 390, wherein a group of
- 7 users registers to receive said group information with said primary or secondary publisher.
- 8
- 9 413. The method of delivering personalized information to users of claim 412, wherein said group
- 10 profile is stored on at least one local database of said secondary publisher said group of users
- 11 has registered with.
- 12
- 13 414. The method of delivering personalized information to users of claim 413, wherein group
- 14 profile is transferred into at least one central database of a primary publisher.
- 15
- 16 415. The method of delivering personalized information to users of claim 390, wherein group
- 17 information responses collected by said secondary publisher are analyzed by said secondary
- 18 publisher.
- 19
- 20 416. The method of delivering personalized information to users of claim 391, wherein group
- 21 information responses collected by said secondary publisher are forwarded to said primary
- 22 publisher or secondary publisher of higher level of hierarchy.

logical model of group information developed or acquired by said primary or said secondary publisher is forwarded to another primary or secondary publisher.

423. The method of delivering personalized information to users of claim 321, wherein:
group profiles are initially formed by selecting a set of N topical fields of interest and defining a significance magnitude for each topical field to create an N-dimensional information space;

group profiles are refined by analyzing group information responses to update the significance magnitude for each topical field;

a trajectory is interpolated in said information space based on the updated significance magnitudes; and

an information vector is defined as a vector tangent to said trajectory with a magnitude defined as the derivative of the trajectory function at a given point to characterize how fast and in what directions a group profile is changing.

424. The method of delivering personalized information to users of claim 423, including analyzing a plurality of information vectors to assist in directing said step of collecting information items.

425. The method of delivering personalized information to users of claim 423, including analyzing a plurality of information vectors to predict users' necessities in some goods and services.

426. The method of delivering personalized information to users of claim 321, wherein user profile is formed for each user in a group.

427. The method of delivering personalized information to users of claim 426, wherein a portion of information items delivered to said user as personalized information is chosen based on said user's user profile.

428. The method of delivering personalized information to users of claim 427, wherein each user in a group specifies the portion of information items delivered based on said user's user profile and the portion of information items delivered based on said group profile.

429. A personal interactive information system, comprising:

- at least one database;
- a plurality of information items stored on said at least one database;
- at least one issue-delivery profile stored on said at least one database;
- means for periodically delivering a collection of information items to each user as an issue of personalized information, wherein at least a portion of information items from said issue is chosen based on said issue-delivery profile;
- means for collecting responses related to said personalized information; and
- means for refining said issue-delivery profile based, at least in part, on said responses.

436. The personal interactive information system of claim 429, including means for fixing topical interests, preferences and psychological-type of each user or a plurality of users in said at least one issue-delivery profile.

437. The personal interactive information system of claim 429 comprising a plurality of issue-delivery profiles, wherein at least a portion of said issue-delivery profiles is stored on said at least one database.

438. The personal interactive information system of claim 429, wherein said means for periodically delivering personalized information are chosen from the group consisting of Internet web pages, FTP downloads, e-mail, facsimile transmission, delivered paper hardcopy, magnetic media, optical media, broadcast TV, and radio.

439. The personal interactive information system of claim 429, wherein said means for collecting responses are chosen from the group consisting of Internet web pages, e-mail, facsimile transmission, and delivered paper hardcopy, and voice mail.

440. The personal interactive information system of claim 429, including specific means for indexing and classifying said information items into topical fields.

441. The personal interactive information system of claim 429, including specific means for information items filtering to release a user from information which is excessive or useless

by allocating only the most essential pieces of knowledge or information.

442. The personal interactive information system of claim 429, including at least one publisher having said at least one database, said means for periodically delivering, said means for collecting responses, and said means for refining.

443. The personal interactive information system of claim 442, including at least one secondary publisher having a second database, a second means for periodically delivering, and a second means for refining.

444. The personal interactive information system of claim 443, wherein said secondary publisher produces secondary information items and said secondary information items are collected and stored on at least one database.

445. The personal interactive information system of claim 443, wherein said secondary publisher has a second means for collecting responses.

446. The personal interactive information system of claim 445, wherein said secondary publisher includes a filter to control release of collected responses to said publisher.

447. The personal interactive information system of claim 445, wherein said secondary publisher includes means to analyze said responses to create information in a form usable by said

1 publisher, said secondary publisher, or another secondary publisher.

2
3 448. The personal interactive information system of claim 429, including independent authors to
4 supply information items to a publisher or secondary publisher.

5
6 449. The personal interactive information system of claim 448, including means for supplying
7 information items to said publisher or secondary publisher by independent authors.

8
9 450. The personal interactive information system of claim 448, including means to order specific
10 information items from independent authors.

11
12 451. The personal interactive information system of claim 448, including specific information
13 items produced by said independent authors in response to general interests revealed by user
14 responses.

15
16 452. The personal interactive information system of claim 451, wherein said responses to said
17 specific information items include ratings of said independent authors.

18
19 453. The personal interactive information system of claim 448, including means for royalties to be
20 paid to said independent authors each time one of their information items is included in an
21 issue of personalized information.

1 454. The personal interactive information system of claim 448, including means for royalties to be
2 paid to said independent authors for submitted information items independently on how
3 many times said information items were really included in an issues of personalized
4 information.

5
6 455. The personal interactive information system of claim 429, including means for users to
7 register to receive said personal information with a publisher or secondary publisher.
8

9 456. The personal interactive information system of claim 455, wherein means for users to register
10 comprise specific means for filling in a registration form, choosing at least one of personal
11 information collections distributed by a publisher or secondary publisher and supplying an
12 initial field of topical interest or initial issue-delivery profile.
13

14 457. The personal interactive information system of claim 456, wherein said user is provided with
15 specific means to supply an initial field of topical interest selecting some topical sections
16 from a given predefined set.
17

18 458. The personal interactive information system of claim 456, wherein said user is provided with
19 specific means to supply an initial field of topical interest referencing to well-known
20 information sources or information publications.
21

22 459. The personal interactive information system of claim 456, wherein said user is provided with

1 specific means to choose initial issue-delivery profile from the group consisting of user
2 profiles of earlier registered users, combined user profile of any number of early registered
3 users, group profile of one of the earlier registered groups, combined group profile of any
4 number of earlier registered groups, and specific issue-delivery profile generated by a
5 publisher.

6
7 460. The personal interactive information system of claim 459, wherein said publisher has means
8 to combine issue-delivery profiles of any number of early registered users or groups of users.

9
10 461. The personal interactive information system of claim 459, wherein publisher has means to
11 generate specific issue-delivery profile.

12
13 462. The personal interactive information system of claim 455, including means to evaluate user's
14 psychological-type by applying psychological tests for input into said issue-delivery profile.

15
16 463. The personal interactive information system of claim 455, wherein said user is provided with
17 specific means to choose a condition determinative of a periodic delivery of said personal
18 information from the group consisting of user's request for specific information, a user-
19 defined schedule, and a specific event chosen by a user.

20
21 464. The personal interactive information system of claim 463, wherein said specific event is an
22 accumulation of a user-defined amount of undelivered information items.

topical interests of registered users of personal information, and using as advertising collections some collections of information items generated for users of personal information.

471. The personal interactive information systems of claim 429, wherein means for collecting subjective responses from each user comprise specific means for collecting subjective views on information items, user requests, inquiry responses, and formalized user statements.

472. The personal interactive information system of claim 471, wherein said means for collecting subjective views on information items are selected from the group consisting of means to evaluate quality using a scale, means to express user's opinion about information items, and means to comment on submitted information items.

473. The personal interactive information system of claim 471, including means for users to require for specific service selected from the group consisting of continuation of information item in at least one of the next issues of personalized information, providing with some additional information items submitted by the same independent author, assigning a priority to information item or topical field, providing with some additional comments to hot news or other urgent information items, eliminating from issue-delivery profile some topical sections said user or group of users is not anymore interested in.

474. The personal interactive information system of claim 429, including means for export and

1 import said issue-delivery profiles from one user or group of users to another.

2
3 475. The personal interactive information system of claim 429, including means to use issue-
4 delivery profiles for special reasons selected from the group consisting of: marketing
5 research and interrogation of public opinion.

6
7 476. The personal interactive information system of claim 429, including means to restrict access
8 to certain information items without a certain response to submitted information.

9
10 477. The personal interactive information systems of claim 429, wherein user is provided with
11 specific means to support personal organizer functions and personal information is delivered
12 in a form suitable for providing said functions.

13
14 478. The personal interactive information system of claim 477, wherein said means to provide
15 user with personal organizer functions are selected from the group consisting of means to
16 create individual collections of information items from various issues of personalized
17 information, means to establish personal information archives, means to add personal
18 comments on information items, means to place bookmarks in selected places indicating a
19 time to refer to them in the future or activating upon the occurrence of a user-defined event,
20 and means to add new information items to the current issue of personalized information.

21
22 479. The personal interactive information system of claim 478, wherein means to create individual

collections of information items are suitable for organizing personal information archives as plurality of sections associated with various fields of interest of said user or with one of user's projects.

480. The personal interactive information system of claim 429, wherein user is provided with interactive tools comprising navigating tools, archiving tools, annotating tools, calendar tools, printing tools, and communication tools.

481. The personal interactive information system of claim 429, wherein a logical model of personal information comprising:
methods for users' responses analysis;
interfaces of users' workplaces;
algorithms for taking into account issue-delivery profiles during generation of collections of information items for common use; and
algorithms for prediction of necessities of users of personal information in goods and services through analysis of users' responses is established by a publisher.

482. The personal interactive information systems of claim 481, including independent suppliers to provide said publisher with logical models of personal information.

483. The personal interactive information system of claim 429, including organizing multiple levels of primary publishers and secondary publishers that distribute each of said collecting,

1 storing, delivering, and refining steps in a mutually agreed manner, wherein publishers act as
2 primary publishers when they perform the step of collecting information items and act as
3 secondary publishers when they rely on other publishers to perform the step of collecting
4 information items.

5
6 484. The personal interactive information system of claim 483, including means to support
7 organizing multiple levels of primary publishers and secondary publishers as a multilevel
8 hierarchical structure.

9
10 485. The personal interactive information system of claim 483, wherein said primary publisher
11 has means for collecting information items from licensed commercial sources, free sources,
12 and independent authors.

13
14 486. The personal interactive information system of claim 485, wherein at least a portion of
15 collected information items is stored on a at least one primary publisher's database.

16
17 487. The personal interactive information system of claim 483, wherein said secondary publishers
18 have means for periodically delivering collections of information items to each user as
19 personalized information.

20
21 488. The personal interactive information system of claim 483, wherein at least a portion of said
22 secondary publishers has means to generate collections of information items.

489. The personal interactive information system of claim 488, wherein at least a portion of collections of information items generated by said secondary publisher is placed into local database of said secondary publisher.

490. The personal interactive information systems of claim 488, wherein at least a portion of collections of information items generated by said secondary publishers is transferred into at least one central database of said primary publisher.

491. The personal interactive information system of claim 483, wherein said primary publisher has means to provide said secondary publishers with information items secondary publishers need to generate collections of information items.

492. The personal interactive information system of claim 483, wherein at least a portion of said secondary publishers has means for collecting information items from licensed commercial sources, free sources, and independent authors.

493. The personal interactive information system of claim 492, wherein at least a portion of information items retrieved by said secondary publisher is stored on at least one local database of said secondary publisher.

494. The personal interactive information system of claim 492, wherein at least a portion of



1 information items retrieved by said secondary publisher is transferred into at least one
2 central database of said primary publisher.

3
4 495. The personal interactive information system of claim 483, wherein a user registers to receive
5 personal information with said primary publisher or said secondary publisher and submits an
6 initial issue-delivery profile.

7
8 496. The personal interactive information system of claim 495, wherein said issue-delivery profile
9 submitted during registration is stored on at least one local database of said secondary
10 publisher said user has registered with.

11
12 497. The personal interactive information system of claim 495, wherein said issue-delivery profile
13 is transferred into at least one central database of said primary publisher.

14
15 498. The personal interactive information systems of claim 484, including means to forward user
16 responses collected by said secondary publisher to said primary publisher or secondary
17 publisher of higher level of hierarchy.

18
19 499. The personal interactive information system of claim 483, wherein at least one secondary
20 publisher establishes his own methods for analyzing user responses.

21
22 500. The personal interactive information system of claim 499, wherein secondary publisher has

1 means to provide said primary publisher or secondary publisher of higher level of hierarchy
2 with methods and procedures for analyzing user responses.
3

4 501. The personal interactive information system of claim 481, wherein said logical model of
5 personal information is established by said primary publisher or a secondary publisher.
6

7 502. The personal interactive information system of claim 501, including means to restrict said
8 secondary publishers to introduce their own logical models of personal information.
9

10 503. The personal interactive information system of claim 501, including means to forward said
11 logical model of personal information developed or acquired by said primary or said
12 secondary publisher to another primary or secondary publisher.
13

14 504. The personal interactive information system of claim 429, wherein:
15 issue-delivery profiles are initially formed by selecting a set of N topical fields of interest and
16 defining a significance magnitude for each topical field to create an N-dimensional information
17 space;

18 refining issue-delivery profiles by analyzing user responses to update the significance
19 magnitude for each topical field;

20 interpolating a trajectory in said information space based on the updated significance
21 magnitudes; and

22 defining an information vector as a vector tangent to said trajectory with a magnitude defined

